

Cluster – Manufacturing
Pathway –Production
Program of Study – Machine Tool Technology

Sample Plan of Study

| | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|--|--|---|
| Smart Core | English I or Pre-AP | English II or Pre-AP | English III or AP | English IV or AP |
| | Algebra I or Geometry | Geometry or Algebra II | Algebra II or Trigonometry Pre- AP Calculus | AP Calculus College Algebra AP Statistics |
| | Physical Science | Biology Pre-AP Chemistry Applied Biology/Chemistry | Chemistry Physics Principles of Technology | AP Biology AP Chemistry AP Physics Earth & Space Science |
| | Civics | World History | US History | Economics |
| Foundation Courses Career Orientation Computer Technology Keyboarding Graduation Requirements English 4 units Math 4 units Science 3 units Social Studies 3 units Fine Arts ½ unit Health and Safety ½ unit Oral Communication ½ unit Physical Education ½ unit Career Focus 6 units Arkansas Challenge Foreign Language 2 units | | Program of Study Support Courses EAST/Workforce Technology Internship Workplace Readiness Support Courses Foreign Language Word Processing or Computer Business Applications (CBA) Extended Learning Opportunities SkillsUSA Job Shadowing | Machine Tool Technology Core Courses Machine Tool I Machine Tool Technology Electives Machine Tool II Machine Tool Lab Machine Tool Industry Certifications Related Programs of Study Industrial Equipment Maintenance Welding Engineering CADD Advanced Manufacturing | |
| Postsecondary Opportunities | | | | |
| Major | | Postsecondary School | | Certificate/Degree Program |
| Basic Machine Shop | | OTC Malvern | | Certificate |
| Basic Machine Tool Technology | | SACC El Dorado | | Certificate |
| Basic Machine Technology | | ASU Beebe | | Certificate |
| Basic Industrial Power Production | | SACC El Dorado | | Certificate |
| Basic Industrial Technology | | SACC El Dorado | | Certificate |
| Machine Shop | | BRTC Pocahontas, NAC Harrison, PTC North Little Rock, RMCC Mena, UA Ft. Smith | | Certificate |
| Machine Tool Technology | | RMCC Mena, OTC Malvern, NPCC Hot Springs, SACC El Dorado, UACC Morrilton | | Certificate |
| | | NAC Blytheville, UACC Morrilton, UA Ft. Smith | | Associate's |
| Manufacturing Technology | | SAUT Camden PTC North Little Rock | | Certificate & Associate's |
| Advanced Manufacturing Tech | | ANC Blytheville ASU Newport EACC Forrest City | | Certificate & Associate's |

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| | MSCC West Memphis PCC UA Helena | |
| Computerized Machining Tech | ASU Beebe | Certificate |
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